

Form PTO-1449 (Modified)

ATTORNEY DOCKET NO. 11520.0222

SERIAL NO. 09/721,414

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT  
(Use several sheets if necessary)

APPLICANT Hiroaki Suga

FILING DATE November 22, 2000

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER |   |   |   |   |   |   |   | DATE      | NAME             | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE |
|---------------------|--------------------|---|---|---|---|---|---|---|-----------|------------------|-------|----------|-------------------------------|
| JDS                 | AA                 | 5 | 4 | 7 | 5 | 0 | 9 | 6 | 12/12/95  | Gold et al.      | 536   | 23.1     | 6/10/91                       |
|                     | AB                 | 5 | 2 | 7 | 0 | 1 | 6 | 3 | 12/14/93  | Gold et al.      | 435   | 6        | 8/17/92                       |
|                     | AC                 | 5 | 9 | 9 | 0 | 1 | 4 | 2 | 11/23/99  | Carganico et al. | 514   | 382      | 3/20/97                       |
|                     | AD                 | 5 | 9 | 9 | 8 | 1 | 4 | 2 | 12/7/99   | Gold et al.      | 435   | 6        | 8/21/97                       |
|                     | AE                 | 6 | 0 | 6 | 3 | 5 | 6 | 6 | 5/16/2000 | Joyce            | 435   | 6        | 7/17/96                       |
|                     | AF                 |   |   |   |   |   |   |   |           |                  |       |          |                               |
|                     | AG                 |   |   |   |   |   |   |   |           |                  |       |          |                               |
|                     | AH                 |   |   |   |   |   |   |   |           |                  |       |          |                               |
|                     | AI                 |   |   |   |   |   |   |   |           |                  |       |          |                               |
|                     | AJ                 |   |   |   |   |   |   |   |           |                  |       |          |                               |
|                     | AK                 |   |   |   |   |   |   |   |           |                  |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT<br>NUMBER |  |  |  |  |  |  |  | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|--|--------------------|--|--|--|--|--|--|--|------|---------|-------|----------|-------------|----|
|  |                    |  |  |  |  |  |  |  |      |         |       |          | YES         | NO |
|  | AL                 |  |  |  |  |  |  |  |      |         |       |          |             |    |
|  | AM                 |  |  |  |  |  |  |  |      |         |       |          |             |    |
|  | AN                 |  |  |  |  |  |  |  |      |         |       |          |             |    |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|     |    |  |   |
|-----|----|--|---|
| JDS | AO | Beaudry et al., "Directed Evolution of An RNA Enzyme", Science, July 31, 1992, v 257, n 5070, p635   | ✓ |
|     | AP | Piccirilli et al., "Aminoacyl Esterase Activity of The Tetrahymena Ribozyme", Science, June 5, 1992, v 256, n 5062, p1420-1424                       | ✓ |
|     | AQ | Pan et al., "In Vitro Selection of RNAs That Undergo Autolytic Cleavage with Pb <sup>2+</sup> ", Biochemistry, April 28, 1992 v 31, n 16, p3887-3895 | ✓ |
|     | AR | Bartel et al., "Isolation of New Ribozymes From A Large Pool of Random Sequences", Science, September 10, 1993 Volume 261(5127), pages 1411-1418;    | ✓ |
| ✓   | AS | Schultz et al., "Expanding The Scope of RNA Catalysis", Science, 24 June 1994, Volume 264(5167), pages 1924-1927                                     |   |

EXAMINER

JDS Schurty

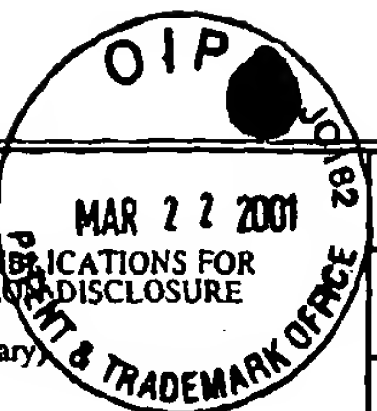
DATE CONSIDERED

5-12-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant.

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|                     | AA                 |      |      |       |          |                               |
|                     | AB                 |      |      |       |          |                               |
|                     | AC                 |      |      |       |          |                               |
|                     | AD                 |      |      |       |          |                               |
|                     | AE                 |      |      |       |          |                               |
|                     | AF                 |      |      |       |          |                               |
|                     | AG                 |      |      |       |          |                               |
|                     | AH                 |      |      |       |          |                               |
|                     | AI                 |      |      |       |          |                               |
|                     | AJ                 |      |      |       |          |                               |
|                     | AK                 |      |      |       |          |                               |

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|--------------------|------|---------|-------|----------|-------------|----|
|                    |      |         |       |          | YES         | NO |
| AL                 |      |         |       |          |             |    |
| AM                 |      |         |       |          |             |    |
| AN                 |      |         |       |          |             |    |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|     |    |   |
|-----|----|---|
| JDS | AT | Lorsch et al., "In Vitro Evolution of New Ribozymes With Polynucleotide Kinase Activity", Nature, Volume 371; 1 September 1994, p 31-36 |
| JDS | AU | Brenner et al., "Encoded Combinatorial Chemistry", Proc. Natl. Acad. Sci. USA, 1992, Vol 89; pages 5381-5383.                           |
| JDS | AV | Illangasekare et al., "Aminoacyl-RNA Synthesis Catalyzed by an RNA", Science; Volume 267(5198); 3 February 1995; pages 643-646          |
| JDS | AW | Lohse et al., "Ribozyme-catalysed amino-acid transfer reactions", Nature, 30 May 1996, Volume 381(6581) p 442-444.                      |
| JDS | AX | Suga et al., "Structural and Kinetic Characterization of an Acyl Transferase Ribozyme", 1998, J. Am. Chem. Soc., v 120, p 1151-1156.    |

EXAMINER

JD Schuyt

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